ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 – (217) 782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601 – (312) 814-6026

ROD R. BLAGOJEVICH, GOVERNOR DOUGLAS P. SCOTT, DIRECTOR

July 28, 2006

CITGO Petroleum Corporation
135th and New Avenue
Lemont, Illinois 60439

MAJOR

Re: CITGO Petroleum Corporation
CITGO Petroleum Corporation - Lemont Refinery
NPDES Permit No. IL0001589
Final Permit

Gentlemen:

Attached is the final NPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. Failure to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Agency offers the following reponses to comments received in your letter dated June 5, 2006:

1. Flow measurement at Outfall 007 was changed to "estimate" from measure.

2. The temperature limits at Outfall 001 remain as public noticed. Compliance with the General Use temperature standards was proposed by CITGO and agreed to by the Agency during the antidegradation and Illinois Pollution Control Board variance processes.

3. The limit and monitoring requirements for Total Residual Chlorine (TRC) remain as public noticed. The limit of 0.05 mg/l TRC is considered a Best Available Technology limit pursuant to 40 CFR 125. While it may be true that the limit was developed to demonstrate compliance with the general use water quality standard (which is below the detection limit of 0.05 mg/l), the limit is in almost universally applied and is considered BAT.

The Agency has begun a program allowing the submittal of electronic Discharge Monitoring Reports (eDMRs) instead of paper Discharge Monitoring Reports (DMRs). If you are interested in eDMRs, more information can be found on the Agency website, http://epa.state.il.us/water/edmr/index.html. If your facility is not registered in the eDMR program, a supply of preprinted paper DMR Forms for your facility will be sent to you prior to the initiation of DMR reporting under the reissued permit. Additional information and instructions will accompany the preprinted DMRs upon their arrival.

The attached Permit is effective as of the date indicated on the first page of the Permit. Until the effective date of any re-issued Permit, the limitations and conditions of the previously-issued Permit remain in full effect. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board within a 35 day period following the issuance date.

Should you have questions concerning the Permit, please contact Darin LeCrone at the telephone number indicated above.

Sincerely,

Alan Keller

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

SAK:DEL:05121401.bah

Attachment: Final Permit

cc: Records
Compliance Assurance Section
Des Plaines Region
NIPC
US EPA

NPDES Permit No. IL0001589

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date: July 31, 2011

Issue Date: July 28, 2006
Effective Date: August 1, 2006

Name and Address of Permittee:

CITGO Petroleum Corporation
135th and New Avenue
Lemont, Illinois 60439

Facility Name and Address:

CITGO Petroleum Corporation - Lemont Refinery
135th and New Avenue
Lemont, Illinois 60439
(Will County)

Discharge Number and Name:	Receiving Waters:
001 Treated Refinery Wastewater	Chicago Sanitary and Ship Canal
002 Stormwater Basin Overflow	Illinois and Michigan Canal
003 Stormwater	Illinois and Michigan Canal
004 Stormwater	Illinois and Michigan Canal
005 Stormwater	Illinois and Michigan Canal
006 Stormwater	Illinois and Michigan Canal
007 Intake Screen Backwash	Chicago Sanitary and Ship Canal
008 Stormwater	Illinois and Michigan Canal

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

SAK:DEL:05121401.bah

NPDES Permit No. IL0001589

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001 - Treated Refinery Wastewater: 5.79 MGD DAF

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Contributory Waste Streams:						
1) Process Wastewater			5) Hydrostatic Test Water			
2) Cooling Tower Blowdown			6) Chemical Cleaning			
3) Non-Process Wastewater, Stormwater, Utility Water, Boiler Blowdown			7) Seneca, Chicago Carbon, BOC Process Water			
4) Sanitary Waste Water			8) Scrubber Wastewater			
Flow (MGD)	See Special Condition 1				Daily	Continuous
pH	See Special Condition 2				2/Week	Grab
BOD_5	1008.80	2472.32			2/Week	Composite
$CBOD_5$			20	40	2/Week	Composite
Oil and Grease	536.40	1005.75	15	20	2/Week	Mathematical Composite
Total Suspended Solids	1475.10	2313.23	25	50	2/Week	Composite
Phenols	10.28	42.37	0.3	0.4	2/Week	Composite
Ammonia as N	1005.75	2212.65	9.4	26.0	2/Week	Composite
COD	12873.60	24808.50			2/Week	Composite
Chromium (Total)	11.99	34.51		1.0	2/Week	Composite
Chromium (Hexavalent	0.99	2.20	0.1	0.3	2/Week	Grab
Sulfide	9.72	21.79			2/Week	Composite
Cyanide	5.04	14.41	0.1	0.2	2/Week	Composite
Fluoride	756.60	2161.70	15	28.6	2/Week	Composite
Sulfate				Monitor Only	2/Week	Composite
Total Dissolved Solids				Monitor Only	2/Week	Composite
Temperature	See Special Condition 17				Continuous	Measure
Total Residual Chlorine	See Special Condition 19			0.05	1/Day	Grab

NPDES Permit No. IL0001589

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 002 - Stormwater Basin Overflow: Intermittent

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Contributory Waste Streams: 1) Refinery Stormwater 2) Treated Process Water (Fire Water) 3) Utility Water 4) Boiler Blowdown 5) Tank Farm Stormwater 6) Hydrostatic Test Water 7) Biomass 8) Off Site Stormwater Runoff 9) Exxon Mobil Terminal Stormwater 10) Chicago Carbon Stormwater 11) Kinder Morgan Stormwater 12) BOC Stormwater						
Flow (MGD)	See Special Condition 1				Estimate When Monitoring	
pH	See Special Condition 2				1/Day	Grab
BOD_5			20	40	1/Day	Grab
Total Suspended Solids			25	50	1/Day	Grab
Oil and Grease			15	30	1/Day	Grab
Phenols			0.3	0.6	1/Day	Grab
Chromium (Total)				1.0	1/Day	Grab
Chromium (Hexavalent)			0.1	0.3	1/Day	Grab
Cyanide			0.1	0.2	1/Day	Grab
Fluoride			15	28.6	1/Day	Grab
Ammonia as N			9.4	26.0	1/Day	Grab
COD				Monitor	1/Day	Grab
Sulfide				Monitor	1/Day	Grab

NPDES Permit No. IL0001589

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 007 - Intake Screen Backwash: 0.027 MGD DAF

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)	See Special Condition 1				1/Week	Estimate
Total Residual Chlorine				0.05	1/Week	Grab

Outfalls: 003, 004, 005, 006, and 008 - Stormwater Runoff: Intermittent

See Special Condition 10

NPDES Permit No. IL0001589

Special Conditions

SPECIAL CONDITION 1. Flow (in Million Gallons per Day) shall be reported as a monthly average and a daily maximum on the DMR form.

SPECIAL CONDITION 2. The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

SPECIAL CONDITION 3. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 4. If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

SPECIAL CONDITION 5. This permit may be modified to include different final effluent limitations or requirements which are consistent with applicable laws, regulations, or judicial orders. The Agency will public notice the permit modification.

SPECIAL CONDITION 6. Mathematical composites for oil, fats and greases shall consist of a series of grab samples collected over any 24-hour consecutive period. Each sample shall be analyzed separately and the arithmetic mean of all grab samples collected during a 24-hour period shall constitute a mathematical composite. No single grab sample shall exceed a concentration of 75 mg/l.

SPECIAL CONDITION 7. For the purpose of this permit discharges from outfalls 003, 004, 005, 006, and 008 are limited to stormwater, free from process and other wastewater discharges.

SPECIAL CONDITION 8. Stormwater discharges identified as outfalls 003, 004, 005, 006, and 008 may be rerouted to the facility's WWTP and discharged via outfall 001, subject to the limitations of this permit. If these stormwater discharges are routed to the WWTP then they shall no longer be subject to the requirements of Special Condition 10, but instead shall meet the requirements of Special Condition 9.

SPECIAL CONDITION 9. (Outfalls 001 and 002) The Agency has determined that the effluent limitations in this permit constitute BAT/BCT for storm water which is treated in the existing treatment facilities for purposes of this permit reissuance, and no pollution prevention plan will be required for such storm water. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a storm water discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated storm water discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the spection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the gency on request.

SPECIAL CONDITION 10.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. A storm water pollution prevention plan shall be developed by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.

B. The plan shall be completed within 180 days of the effective date of this permit. Plans shall provide for compliance with the terms of the plan within 365 days of the effective date of this permit. The owner or operator of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request. [Note: If the plan has already been developed and implemented it shall be maintained in accordance with all requirements of this special condition.]

C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.

NPDES Permit No. IL0001589

Special Conditions

D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph G of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the Agency for review upon request.

E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:

1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.

2. A site map showing:

   I. The storm water conveyance and discharge structures;

   Ii. An outline of the storm water drainage areas for each storm water discharge point;

   Iii. Paved areas and buildings;

   Iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.

   V. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);

   Vi. Surface water locations and/or municipal storm drain locations

   Vii. Areas of existing and potential soil erosion;

   Viii. Vehicle service areas;

   Ix. Material loading, unloading, and access areas.

3. A narrative description of the following:

   I. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;

   Ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;

   Iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;

   Iv. Industrial storm water discharge treatment facilities;

   V. Methods of onsite storage and disposal of significant materials;

4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.

5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.

6. A summary of existing sampling data describing pollutants in storm water discharges.

F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:

1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.

2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.

3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.

4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.

5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:

   I. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;

   Ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;

   Iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges;

   Iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.

   V. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination;

   Vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.

6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion and describe measures to limit erosion.

7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.

8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.

NPDES Permit No. IL0001589

Special Conditions

G. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.

H. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.

I. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures.

J. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.

Construction Authorization

K. Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights thereunder.

2. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and © does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.

3. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.

4. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

L. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part G of the Storm Water Pollution Prevention Plan of this permit. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) Which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).

M. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.

NPDES Permit No. IL0001589

Special Conditions

N. Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Annual Inspection Report
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

O. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

SPECIAL CONDITION 11. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, http://www.epa.state.il.us/water/edmr/index.html.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using eDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section, Mail Code # 19

SPECIAL CONDITION 12. For the purpose of this permit, discharges from outfall 002 are limited to overflow from the stormwater retention basin, free from additional process or other discharges.

SPECIAL CONDITION 13. The permittee shall monitor the nitrogen concentration of it's oil feed stocks and report the concentrations to the Agency on an annual basis. Reports shall be submitted no later than 60 days after the end of the calendar year.

SPECIAL CONDITION 14. The permittee may use the upset provision as an affirmative defense provided all the requirements of 40 CFR 122.41(n) are met.

SPECIAL CONDITION 15. Discharge from this facility shall be in accordance with 35 Ill. Adm. Code Section 304.213 for ammonia nitrogen. This section requires that the discharge meet BAT limitations pursuant to 40 CFR 419.23, as well as ammonia nitrogen concentration limits of 9.4 mg/l as a monthly average and 26.0 mg/l as a daily maximum.

NPDES Permit No. IL0001589

Special Conditions

SPECIAL CONDITION 16. Storm Water Credit for Outfall 001:

An additional stormwater credit for the following parameters shall be calculated based on 100% of the stormwater flow as defined below.

	Pounds per 1000 gallons of stormwater	
Parameter	Average	Maximum
BOD	0.22	0.40
Total Suspended Solids	0.18	0.28
COD	1.5	3.0
Oil and Grease	0.067	0.13
Phenol	0.0014	0.0029
Cr (tot)	0.0018	0.0050
Cr (+6)	0.00023	0.00052

Dry Weather Flow -- The average flow from the waste water treatment facility for the last three consecutive zero precipitation days. Previously collected storm water shall not be included.

Stormwater Flows -- The stormwater runoff which is treated in the waste water treatment facility shall be defined as that portion of the flow greater than the dry weather flow.

In computing monthly average permit limits to include stormwater credit, the pound credit calculated above shall be averaged along with process pound limits over the 30 day period. Explanatory calculations and flow data shall be submitted together with discharge monitoring reports.

The stormwater credit does not authorize the permittee to exceed the concentration limits contained in effluent Limitations and Monitoring, Page 2.

SPECIAL CONDITION 17. The discharge from outfall 001 shall be subject to the following limitations:

During the months of April through November, the discharge shall not exceed 90° F, except that one percent of the hours in any 12 month period may exceed 90° F but shall never exceed 93° F at any time.

Whenever the weekly average temperature of the effluent exceeds 90° F, the permittee shall limit it's net thermal discharge to 1,452 mm BTU per day based on a weekly average.

The monthly average and monthly maximum value shall be reported on the DMR. The permittee shall also report the total number hours the temperature exceeds 90° F.

SPECIAL CONDITION 18. The permittee was granted a variance from the water quality standard for Total Dissolved Solids (TDS) for the discharge at outfall 001 in accordance with Illinois Pollution Control Board Order PCB 05-85. The permittee shall commence its study of downstream TDS concentrations in accordance with the schedule contained in this order. This permit may be modified to include any final limitations or monitoring requirements which may result. This variance expires on December 15, 2009.

SPECIAL CONDITION 19. Upon commencement of operation of the FCCU Scrubber System, the discharge from Outfall 001 shall be monitored on a continuous basis for Total Residual Chlorine and subject to a limit of 0.05 mg/l as an instantaneous maximum. The permittee shall notify the Agency in writing 30 days (or as soon as practicable) prior to the start of scrubber operations. From the effective date of this permit until such time that the scrubber becomes operational, monitoring for Total Residual Chlorine is only required during those times when breakpoint or super chlorination is used for short term ammonia treatment in the treated water basin. Prior to discharging from the treated water basin following chlorine treatment, the permittee shall take a grab sample from the basin to determine compliance with the TRC limit of 0.05 mg/l. The discharge from the basin shall then be sampled once per day using a grab sample, for a period of five days after resuming the discharge. The permittee shall submit an attachment to the DMR explaining the reason for the temporary chlorine treatment, the amount of chlorine use, and length of the temporary cessation of discharge.